# WAR TIME LIGHTING

## for TOP EFFICIENCY AROUND the CLOCK

kurt versen company

709 SIP STREET • UNION CITY, N. J.

U. S. ARMY GENERAL HEADQUARTERS, PENTAGON BUILDING, ARLINGTON, VIRGINIA

# HELP THE WAR EFFORT with BETTER LIGHTING

Three Typical Interiors of Pentagon Bldg.

## 42,000 KURT VERSEN FIXTURES

are at work in the New War Department Office Building in Arlington, Virginia. The result is 25 to 35 foot candles of scientifically balanced illumination with total absence of glare and shadows. They provide optimum working and seeing conditions for 50,000 office workers, guarding against eye strain and fatigue and prevent costly, if not fatal, errors. Kurt Versen fixtures were selected for America's largest office building for the following reasons:

- Highest Efficiency
- Glare-free and shadowless illumination
- Lowest maintenance cost
- Lowest operating cost
- Lowest first cost

## LUCETTE

With gently luminous bowl of blown white opal glass. The most popular unit for high level indirect illumination. Choice of America's largest office building.

**FINISH:** Will depend upon WPB limitation orders.

| Catalog No. | Wattage | Diameter | Length |
|---|---|---|---|
| 3-S 200 | 200 | 16" | 24" |
| 3-S 300 | 300 | 18½" | 30" |
| 3-S 500 | 500 | 18½" | 30" |
| 3-S 1000 | 750-1000 | 24" | 40" |

## SUNETTE

Light gauge metal bowl, shallow cross section, top efficiency.

**FINISH:** Will depend upon WPB limitation orders.

| Catalog No. | Wattage | Diameter | Length |
|---|---|---|---|
| 3-S 203 | 200 | 17" | 24" |
| 3-S 303 | 300 | 19" | 30" |
| 3-S 503 | 500 | 19" | 30" |
| 3-S 1003 | 750-1000 | 24" | 40" |

## CORONA

A plastic luminous bowl of low brightness to blend into the illuminated ceiling. Ventilated bottom ring to safe-guard against warpage and discoloration. Used in many of the largest high intensity office installations.

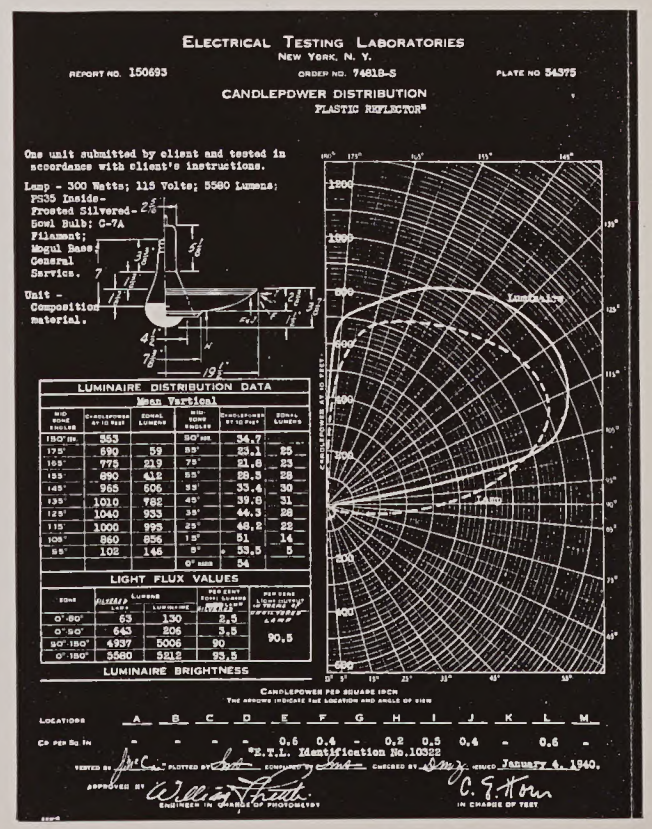
**FINISH:** Will depend upon WPB limitation orders.

| Catalog No. | Wattage | Diameter | Length |
|---|---|---|---|
| 3-S 388 | 300 | 19½" | 30" |
| 3-S 588 | 500 | 19½" | 30" |

**HIGHER LIGHTING LEVELS** are essential for quicker and more accurate seeing. It means conservation of precious energy, step-up of production, avoids costly errors. But higher lighting levels are dangerous unless the quality of illumination is carefully planned. Glare and shadows must be avoided. Indirect illumination meets all these requisites.

**GREATER EFFICIENCY** — Kurt Versen fixtures have the highest known output of any commercial lighting unit (see report of Electrical Testing Laboratories which is typical for all models shown)—hence, more light for your lighting dollar.

**LESS CRITICAL MATERIAL**—Greater efficiency means less copper wiring both for circuits and fixtures to obtain the same lighting levels with less efficient fixtures. Kurt Versen fixtures use minimum amount of metal, well below War Production Board allowances and are used in the Board's own headquarters and in many of their large sectional offices.



ELECTRICAL TESTING LABORATORIES
NEW YORK, N. Y.

REPORT NO. 150693 ORDER NO. 74818-S PLATE NO 54375

CANDLEPOWER DISTRIBUTION
PLASTIC REFLECTOR*

One unit submitted by client and tested in accordance with client's instructions.

Lamp - 300 Watts; 115 Volts; 5580 Lumens; PS35 Inside-Frosted Silvered-Bowl Bulb; C-7A Filament; Mogul Base; General Service.

Unit - Composition material.

LUMINAIRE DISTRIBUTION DATA

Mean Vertical

| MID ZONE ANGLES | CANDLEPOWER AT 10 FEET | ZONAL LUMENS | MID ZONE ANGLES | CANDLEPOWER AT 10 FEET | ZONAL LUMENS |
|---|---|---|---|---|---|
| 180° IN | 553 | | 90° MIN | 34.7 | |
| 175° | 890 | 59 | 85° | 23.1 | 29 |
| 165° | 775 | 219 | 75° | 21.8 | 23 |
| 155° | 690 | 412 | 65° | 28.5 | 28 |
| 145° | 965 | 606 | 55° | 33.4 | 30 |
| 135° | 1010 | 782 | 45° | 39.8 | 31 |
| 125° | 1040 | 933 | 35° | 44.3 | 28 |
| 115° | 1000 | 993 | 25° | 48.2 | 22 |
| 105° | 860 | 856 | 15° | 51 | 14 |
| 95° | 102 | 148 | 5° | 53.5 | 5 |
| | | | 0° MAX | 54 | |

LIGHT FLUX VALUES

| ZONE | FILTERED LIGHT | LUMENS | LUMINAIRE | PER CENT ZONAL LUMENS OF TOTAL LAMP LUMENS | PER CENT LUMINAIRE EFFICIENCY |
|---|---|---|---|---|---|
| 0°-60° | 63 | 130 | 2.3 | | |
| 0°-90° | 643 | 206 | 3.5 | | 90.5 |
| 90°-180° | 4937 | 5006 | 90 | | |
| 0°-180° | 5580 | 5812 | 93.5 | | |

LUMINAIRE BRIGHTNESS

CANDLEPOWER PER SQUARE INCH
The arrows indicate the location and angle of view

| LOCATIONS | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cp per Sq In | - | - | - | - | 0.6 | 0.4 | - | 0.2 | 0.5 | 0.4 | - | 0.6 | - |

*I.E.S. Identification No.10322

TESTED BY ... PLOTTED BY ... COMPUTED BY ... CHECKED BY ... ISSUED January 4, 1940.

APPROVED BY William Stroth. ENGINEER IN CHARGE OF PHOTOMETRY

C. G. Horn IN CHARGE OF TEST

ALL FIXTURES ILLUSTRATED ARE LICENSED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 2,102,462, 1,609,870, 1,576,725, 108,654.

## DRACO

Widest horizontal spread. Ideal for low ceilings. Concentric rings shield bowl-silvered lamp from all critical angles.

**FINISH:** Will depend upon WPB limitation orders.

| Catalog No. | Wattage | Diameter | Length |
|---|---|---|---|
| 3-S 222 | 150-200 | 12½" | 8" |
| 3-S 223 | 200 | 18" | 8" |
| 3-S 323 | 300-500 | 18" | 10½" |

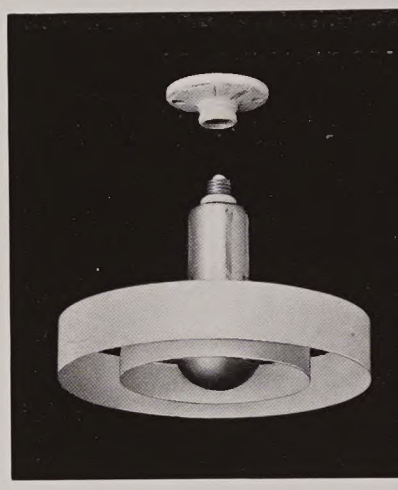
Can be had also with stem suspension.

## DRACO CONVERTOR

Where war activities demand instant lighting improvement without change of existing wiring facilities —simply screw into existing ceiling outlet as you would replace a bulb.

**FINISH:** Eggshell enamel.

| Catalog No. | Wattage | Diameter | Length |
|---|---|---|---|
| 3-S 222AD | 150-200 | 12½" | 8" |

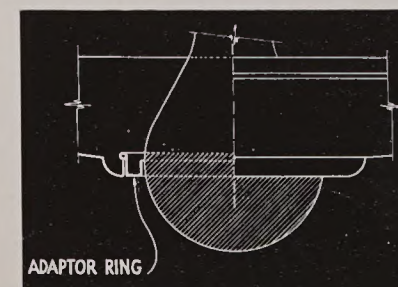


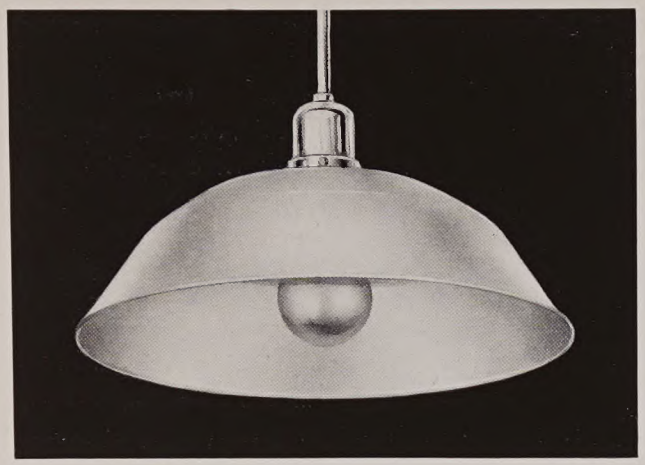
## LAMP NECK FUNNEL

For low ceilings—A special funnel is available to conceal the lamp neck from view without impairing the efficiency of the fixture. See price list.

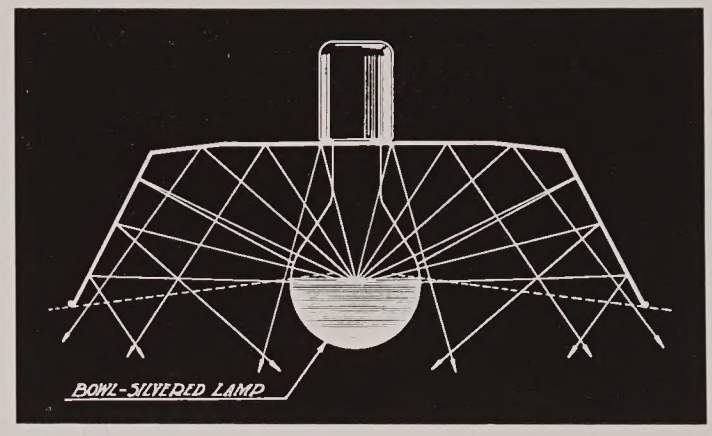
## ADAPTOR RING

For use of lower wattage lamps adaptor rings can be inserted into the bottom ring without any tools or disassembling of fixture. For use of a 200 watt lamp in a 300 watt fixture a Mogul to Edison base adaptor will be required in addition. See price list.





# "Indirector"




**INDIRECTOR** furnishes indirect directed light for high level lighting without glare and minimizing shadows.

Ideal for war plants with high speed production, drafting rooms, laboratories and office lighting where the use of ceilings for indirect lighting is not feasible.

Scientifically designed for optimum spread of light distribution. Bayonet lock construction removes reflector for maintenance.

**FINISH:** White polymerin (matte) baked enamel inside—battleship gray outside

| Catalog No. | Wattage | Diameter | Length |
|---|---|---|---|
| 16 | 100-200 | 16" | 8½" |
| 20 | 300-500 | 20" | 10" |

Furnished with standard 4" outlet box cover. Can be supplied also with stem suspension.

## RECENT INSTALLATIONS

**WAR DEPARTMENT**
PENTAGON BLDG.
Arlington, Va.

**WAR DEPARTMENT BLDG.**
Washington, D.C.

**MARITIME BLDG.**
(U. S. Army Air Corps)
Washington, D.C.

**NAVAL MEDICAL CENTER**
Bethesda, Md.

**WAR PRODUCTION BOARD**
BLDG. "E"
Washington, D.C.

**R.F.C. BLDG.**
Washington, D.C.

**NATIONAL GUARD**
2nd UNIT ARMORY
Washington, D.C.

# kurt versen company

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New York Showrooms: **373 FOURTH AVE., NEW YORK, N. Y.**

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